Course Content

Course Description:
The course provides an overview of the SAS Viya architecture and shows how to perform essential SAS administration tasks using SAS Environment Manager and the command line interface.

Topics:

Lesson 1: Getting Started
- The SAS Language
- SAS Data Sets
- DATA and PROC Steps
- Built-in Loop
- SAS Data Libraries
- Viewing Data Sets in the View Table

Lesson 2: Getting Data into SAS
- Methods for Inputting Data
- CARDS and DATALINES
- Reading space delimited files
- Reading data arranged in columns
- Reading data not in standard format
- Informats
- Mixing input styles
- Reading messy raw data
- Reading part of a data file
- Controlling input with options
- Reading delimited files with the DATA step
- Reading delimited and Excel files with PROC IMPORT
- Temporary versus Permanent Data Sets
- Listing contents of the SAS Data Set

Lesson 3: Working With Your Data
- Creating and Redefining Variables
- Using SAS Character Functions
- Using SAS Numeric Functions
- Using SAS Date Functions
- Subsetting your data
- Using IF-THEN Statements

Lesson 4: Sorting, Printing and Summarizing your data
- Using SAS Procedures
- Subsetting in Procedures with the WHERE clause
- Sorting with PROC SORT
- Printing with PROC PRINT
- Changing the Appearance of Printed Values with Formats
- Creating Custom Formats
- Calculating basic descriptive statistics
- Calculating frequency tables
- Producing reports with PROC TABULATE

Lesson 5: Enhancing Your Output
- Concepts of the Output Delivery System
- Creating Text Output
- Creating HTML Output
- Creating RTF Output
- Creating PDF Output

Lesson 6: Combining SAS Data Sets
- Combining Data Sets Using a One-to-One Match Merge
- Combining Data Sets Using a One-to-Many Match Merge

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